

ABSTRACT

Protection is provided against electrical surges resulting from Electrical Over Stress conditions, e.g., when interfacing circuits with powered connections. An EOS shunt is activated for as long as the EOS condition exists. EOS protection using an EOS shunt in accordance with the principles of the present invention remains activated by a voltage threshold trigger as long as necessary. In a disclosed embodiment, an EOS shunt includes a voltage threshold detector that detects a voltage on a power bus with respect to a ground rail exceeding a predetermined amount, e.g., 5 volts in a device powered at 3.3 volts. During the EOS event, a path between power and ground comprising a transistor is turned on.